

PF4/HPF4 series filter

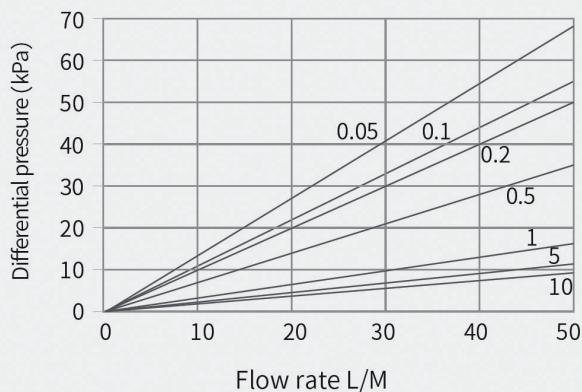
PF4/HPF4 (Ø56, Ø69, Ø83) series filter cartridges feature the best chemical compatibility and could be used in the most aggressive chemicals including strong acids, bases, corrosive liquid and oxidant. All fluorine construction and superior cleaning standard effectively reduces metal, chlorides and other contaminants. High flow rate, long service life. Hydrophobic (PF4) and hydrophilic (HPF4) PTFE membranes are both available for liquid or gas applications.



ITEM	SPECIFICATIONS
Filter Media	Hydrophobic PTFE/ Hydrophilic PTFE
Support	PFA
Endcaps/Cage/Core	PFA
Max. Working Temp.	180°C
Membrane area	0.91 m ² /10" , 1.21 m ² /10"
Max. Operating DP	Forward 0.42 Mpa, Reverse 0.21 Mpa

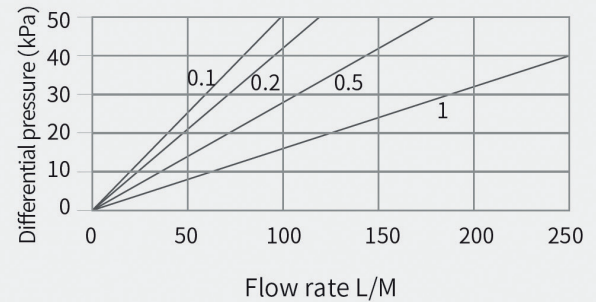
Differential pressure vs. Flow rate (10" PF4/HPF4)

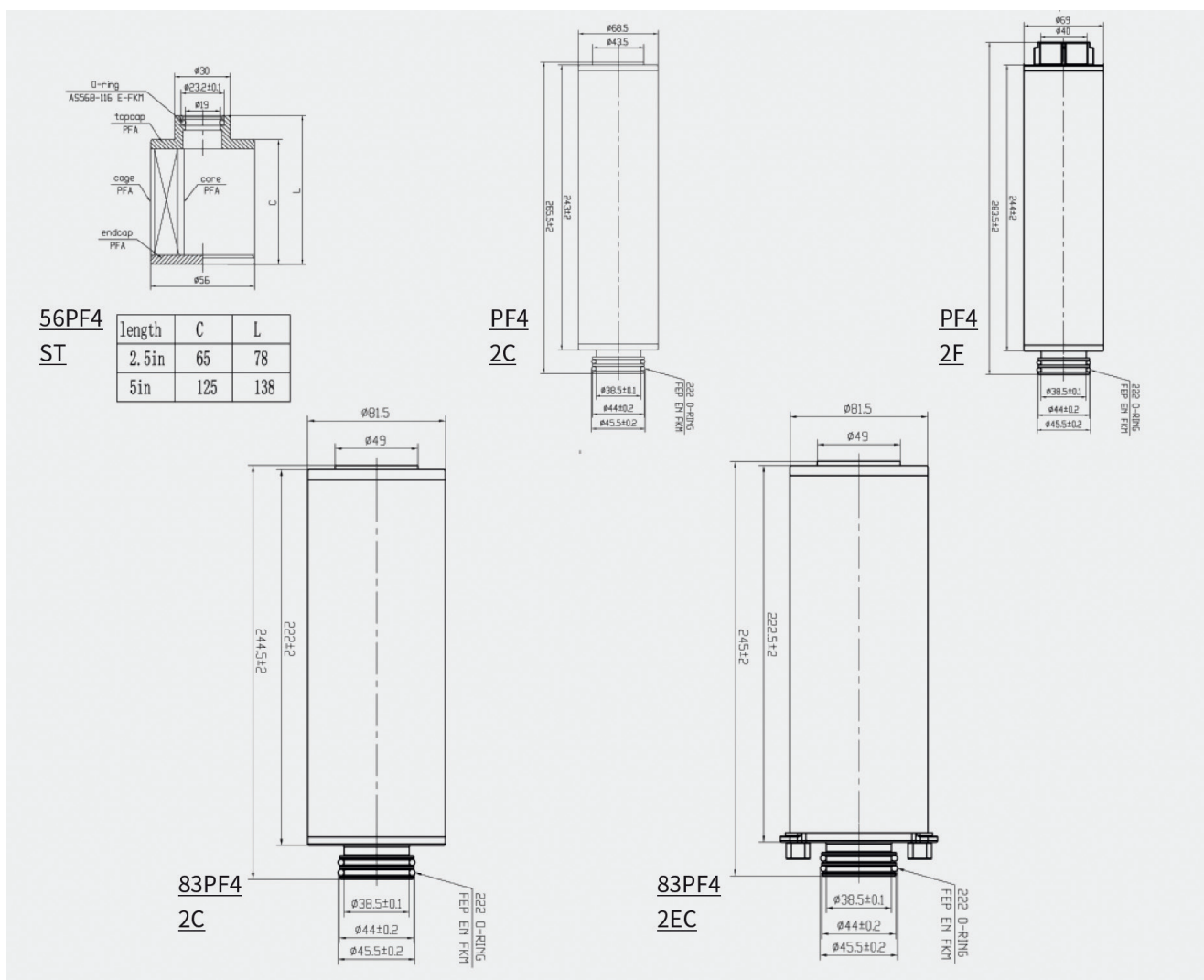
(— 0.05=0.05µm)



Differential pressure vs. Flow rate (10" 83PF4/83HPF4)

(— 0.1=0.1µm)





56PF4
ST

length	C	L
2.5in	65	78
5in	125	138

Ordering Information

ESPRO-12-PF4	005	2F	05	T	/
Code	Removal Rating	Adaptor	Length	Sealing	Packaging
ESPRO-12-56PF4	002 0.02 µm	2F 222Fin	02 2,5"	E EPDM	/ Without Prewet
ESPRO-12-56HPF4*	003 0.03 µm	2C 222Flat	05 5"	V Viton	W < 25 ppb
ESPRO-12-PF4	005 0.05 µm	6F 226Spear	10 10"	S Silicone	CW <10 ppb
ESPRO-12-HPF4	010 0.10 µm	6C 226Flat	20 20"	T FEP/Viton	
	022 0.22 µm	ST 1160-rings	30 30"		
	045 0.45 µm				
ESPRO-12-83PF4	10T 10.0 µm	2C 222Flat	08 8"	E EPDM	/ Without Prewet
ESPRO-12-83HPF4		2EC 222Flat with lock	10 10"	T FEP/Viton	W < 25 ppb
					CW < 10 ppb

* ESPRO-12-56HPF4 series is only available in 5 inch with 116 o-rings.

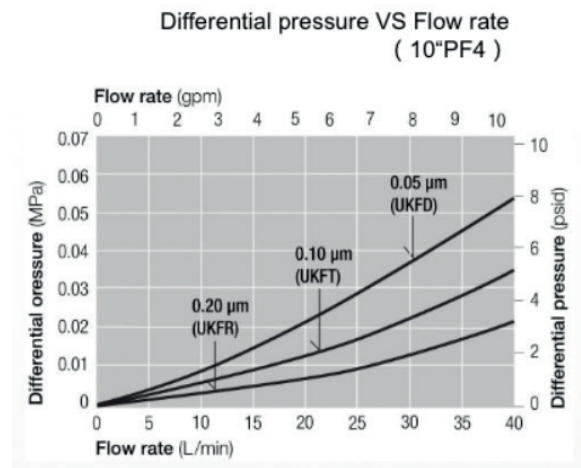
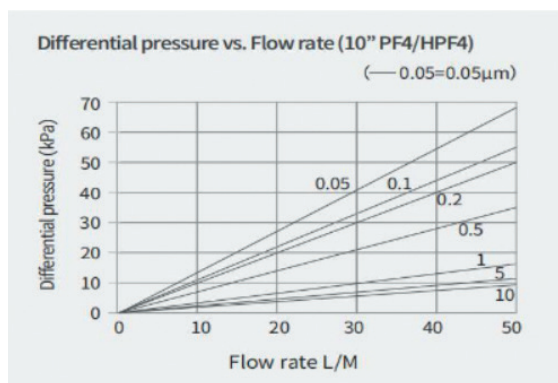


PF4 & PALL UltiKleen™ -S comparison

COMPARISON TABLE			
Brand		PALL	esPRO® BY DEEFINE
Series		UltiKleen™ -S	PF4 Series
Model No.		ABF	PF4
Type		PFA cartridge filter	PFA cartridge filter
Removal ratings		0.05 / 0.1 / 0.2 µm	0.05 / 0.1 / 0.2 µm
Material	Filter medium	PTFE	PTFE
	Media support	PTFE	PFA
	Core & Cage	PFA	PFA
	O-ring	FEP/Kalrez	FEP/FFKM
Connections	Diameter	68 mm	68 mm
	Endcaps	222Flat	222Flat
	Length	4/10/20/30 inch	4/10/20/30 inch
Filtration area		0.55 m ² / 1.1 m ² 2.2 m ² / 3.3 m ²	0.55 m ² / 0.9 m ² 1.1 m ² / 2.2 m ² / 3.3 m ²
Filtration efficiency		As shown in the figure	
Differential pressure		0.69 MPa < 50°C 100 psid < 120°F	Forward 0.42 Mpa Reverse 0.21 Mpa
Maximum Operating Temperature		185°C	180°C



PF4

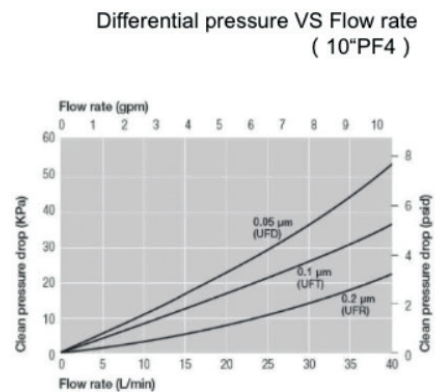
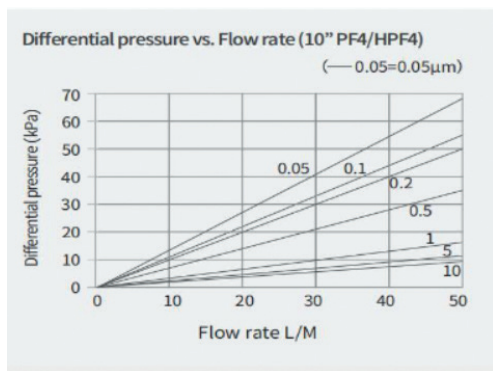


PF4 & PALL UltiKleen™ -CDS comparison

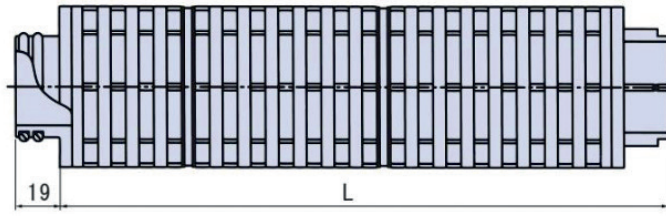
COMPARISON TABLE			
Brand		PALL	esPRO® BY DEEFINE
Series		UltiKleen™ -CDS	PF4 series
Model No.		ABF1UF	PF4
Type		PFA cartridge filter	PFA cartridge filter
Pore size		0.05 / 0.1 / 0.2 µm	0.05 / 0.1 / 0.2 µm
Material	Filter medium	PTFE	PTFE
	Media support	PTFE	PFA
	Core & Cage	PFA	PFA
	O-ring	FEP/Kalrez	FEP/FFKM
Connections	Diameter	68 mm	68 mm
	Endcaps	222Flat	222Flat
	Length	4/10/20/30 inch	4/10/20/30 inch
Filtration area		0.5 m²/1 m²/2 m²/3 m²	0.5 m²/1 m²/2 m²/3 m²
Filtration efficiency		As shown in the figure	
Differential pressure		0.69 MPa 50°C 0.41 MPa 110°C 0.24 MPa 170°C 0.14 MPa 185°C	Forward 0.42 Mpa Reverse 0.21 Mpa
Maximum Operating Temperature		185°C	180°C



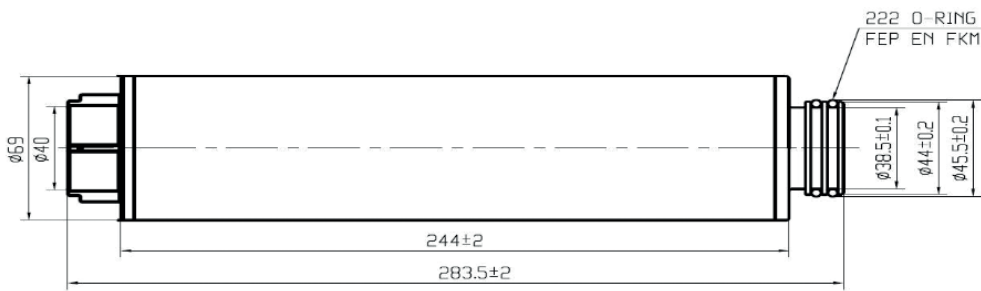
PF4



PF4 Deefine & PALL comparison



PALL

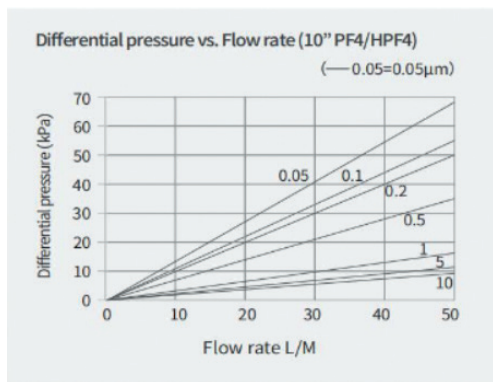


esPRO® BY DEEFINE

PF4 & PALL Emflon® PF comparison

COMPARISON TABLE			
Brand		PALL	esPRO® BY DEEFINE
Series		Emflon® PF	PF4 series
Model No.		AB1/AB04	PF4/PF4C
Type		PFA cartridge filter	PFA cartridge filter
Pore size		0.05 / 0.1 / 0.2 / 1.5 / 10 µm	0.05 / 0.1 / 0.2 / 1.5 / 10 µm
Material	Filter medium	PTFE	PTFE
	Media support	PTFE	PFA
	Core & Cage	PFA	PFA
	O-ring	FEP/Kalrez/ Chemraz	FEP/FFKM
Connections	Diameter	68 mm	68 mm
	Endcaps	222Flat	222Flat
	Length	4/10 inch	4/10 inch
Filtration area		0.56 m² / 0.24 m²	0.56 m² / 0.24 m²
Filtration efficiency		As shown in the figure	
Differential pressure		0.69 MPa 50°C 0.41 MPa 110°C 0.24 MPa 170°C 0.14 MPa 185°C	0.42 Mpa
Maximum Operating Temperature		185°C	180°C

PF4C Series



Differential pressure VS Flow rate (10"PF4)

